



February 14, 2017

Mr. Paul Matuska
Bureau of Reclamation
Lower Colorado Regional Office
P.O. Box 61470
Boulder City, NV 89006-1470

Re: 2016 YMIDD Pilot Fallowing Program Conserved Water Quantification - Revised

Dear Mr. Matuska:

The Central Arizona Groundwater Replenishment District (CAGRD) is providing you a revised final quantification of the 2016 Yuma Mesa Irrigation and Drainage District (YMIDD) Pilot Fallowing Program (PFP) volume of conserved water. The original final quantification letter, dated January 30, 2017, contained an error of 7,291 acre-feet (corrected to 7,496 acre-feet) in the '2013 Crop Distribution' column. This correction, as evidenced in the calculation below, did not affect the 2016 final quantification of conserved water total of 7,509.04 acre-feet.

As you know, CAGRD retained LandIQ, a firm with extensive experience developing crop consumptive use (CU) estimates, to prepare the technical memorandum entitled, 'YMIDD Crop Mapping and Consumptive Use Estimation.' This technical memorandum was modified and finalized on April 2, 2015, after review and comment by both Reclamation and the Arizona Department of Water Resources.

In 2016, CAGRD, YMIDD and Reclamation, conducted two field verifications during the months of March and October, which confirmed that all enrolled PFP fields totaling 1,400.94 acres were indeed fallowed. The 2016 CU values (volume of conserved water) were calculated using AZMET's Yuma South Station¹ daily temperature and precipitation data from January 1st through December 31st, 2016.

The following table is a summary of the 2016 CU values using YMIDD crop distribution for years 2011-2013.

	2011 Crop Distribution		2012 Crop Distribution		2013 Crop Distribution	
	Acres	2016 CU (a-f)	Acres	2016 CU (a-f)	Acres	2016 CU (a-f)
Alfalfa	577	3,376	660	3,861	716	4,193
Dates	9	57	9	57	9	57
Declining Citrus	387	1,952	424	2,140	501	2,526
Mature Citrus	304	1,509	217	1,074	135	670
Small Grains	52	105	--	--	11	21
Sudan Grass	40	156	--	--	--	--
Young Citrus	17	60	8	28	8	28
Totals	1,386	7,216	1,317	7,160	1,380	7,496


CAGRD's final 2016 quantification of conserved water totals **7,509.04 acre-feet (AF)** for 2016 and was calculated as follows:

¹ <http://ag.arizona.edu/azmet/data/3615et.txt>

- $7,290.67 \text{ (2011-2013 CU average)} / 1,361 \text{ (2011-2013 acreage average)} = 5.36 \text{ AF/conserved water per acre}$
- $5.36 \text{ AF} \times 1,400.94 \text{ acres (2016 enrolled acres)} = 7,509.04 \text{ AF}$

If you have questions regarding the 2016 final quantification of conserved water for the YMIDD Pilot Fallowing Program please contact me at (623) 869-2182.

Sincerely,



Perri Benemelis
Central Arizona Groundwater Replenishment District

cc: Andrew Craddock, CAGRD
Patrick Dent, CAP
Vineetha Kartha, ADWR

